

## TERMINAL

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said washer and spring in place. The said assemblage can also be put together with built-in slot-pins in manufacturing process of spark plugs.

METAL The [spring] clip in conventional plug wire [metal clamp] will be omitted, predetermined slots are built in [metal clamp] recommend material for modified SPARK PING WIFE TERMINAL [metal clamps] be superior than [existing counterpar] [Rubber] boot will be made to slide along plug wire instead of statibnary, same modification can be applied to Hemi style long-reached plug wire and distributorless individual ignition coil SILICONE COVER design. THOSE CURRENTY USED

## Alternative embodiment

TERMINAL An adaptor can be built with conventional plug tip at one end, which will fit conventional plug wire metal clamp while the other end with predetermined slots will fit in spring-loaded plug(tip) The advantage here is no modification needed for conventional plug wires, but non locking character still exists.

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## **OPERATION**

The invention provides simple steps to connect and disconnect spark plug wires from spark plugs. For removal, slide rubber boot 18 (Fig 7) upward to expose enough metal clamp of plug wire 20 (Fig 8), press said metal clamp down, turn counter clockwise to release, since plug tip is spring-loaded, said metal clamp will be pushed out after it clears the slot pins. Compare to what mechanics are doing these days like twisting, pulling and yanking, this selfpop-up is a phenomenon. For installation, hold said metal clamp against matching slot pins (can be felt easily), once metal clamp clears said slot pins, press down and turn clockwise to lock, the spring will urge upon said metal clamp, forming a positive locking position, slide down said rubber boot firmly. With conventional snap and pull connections, even experienced mechanics can't be certain said connections are secured or just being snug, now they are black and white!











